



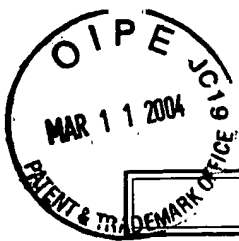
Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 56968  
Application ID: 10648815  
Title of Invention: WELLBORE PUMPING WITH  
IMPROVED TEMPERATURE  
PERFORMANCE  
First Named Inventor: WILLIAM HOWARD  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-08-26  
Effective Receipt Date: 2004-03-11  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 4562  
Attorney Docket Number: WEAT/0313



Total Fees Authorized:


Digital Certificate Holder: cn=William Bruce Patterson,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
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## TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0


| Title of<br>Invention  | WELLBORE PUMPING WITH IMPROVED TEMPERATURE<br>PERFORMANCE |                |                           |             |                |  |                        |            |  |            |
|--|---|----------------|---------------------------|-------------|----------------|--|------------------------|------------|--|------------|
| Application Number: 10/648815    |   |                |                           |             |                |  |                        |            |  |            |
| Date: 2003-08-26   |   |                |                           |             |                |  |                        |            |  |            |
| First Named Applicant: WILLIAM F. HOWARD   |   |                |                           |             |                |  |                        |            |  |            |
| Confirmation Number: 4562  |   |                |                           |             |                |  |                        |            |  |            |
| Attorney Docket Number: WEAT/0313  |   |                |                           |             |                |  |                        |            |  |            |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> |   |                |                           |             |                |  |                        |            |  |            |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>WILLIAM B. PATTERSON<br/>Registered Number: 34102</td><td>(WILLIAM B. PATTERSON)</td><td>Attorney</td></tr></tbody></table>  |   |                | Submitted by:             | Elec. Sign. | Sign. Capacity | WILLIAM B. PATTERSON<br>Registered Number: 34102 | (WILLIAM B. PATTERSON) | Attorney   |  |            |
| Submitted by:  | Elec. Sign.   | Sign. Capacity |                           |             |                |  |                        |            |  |            |
| WILLIAM B. PATTERSON<br>Registered Number: 34102   | (WILLIAM B. PATTERSON)                                    | Attorney       |                           |             |                |  |                        |            |  |            |
| <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>WEAT0313-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>   |   |                | Documents being submitted | Files       | us-ids         | WEAT0313-usidst.xml                              |                        | us-ids.dtd |  | us-ids.xsl |
| Documents being submitted  | Files   |                |                           |             |                |  |                        |            |  |            |
| us-ids   | WEAT0313-usidst.xml                                       |                |                           |             |                |  |                        |            |  |            |
|  | us-ids.dtd  |                |                           |             |                |  |                        |            |  |            |
|  | us-ids.xsl  |                |                           |             |                |  |                        |            |  |            |
| Comments   |   |                |                           |             |                |  |                        |            |  |            |



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of<br>Invention   | WELLBORE PUMPING WITH IMPROVED TEMPERATURE<br>PERFORMANCE |            |            |          |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |        |  |  |  |               |      |  |  |
|---|---|------------|------------|----------|------|-------|----------|------|----------|------------|------|----------|------|-------|----------|--|---|---------|------------|--------|--|--|--|---------------|------|--|--|
| <p>Application Number: 10/648815 </p> <p>Confirmation Number: 4562</p> <p>First Named Applicant: WILLIAM HOWARD</p> <p>Attorney Docket Number: WEAT/0313</p> <p>Art Unit: 3672</p> <p>Search string: ( 4344485 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4344485</td><td>1982-08-17</td><td>Butler</td><td></td><td></td><td></td></tr></tbody></table> <p><b>Signature</b></p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table> |   |            |            |          |      |       |          | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |  | 1 | 4344485 | 1982-08-17 | Butler |  |  |  | Examiner Name | Date |  |  |
| init  | Cite.No.  | Patent No. | Date       | Patentee | Kind | Class | Subclass |      |          |            |      |          |      |       |          |  |   |         |            |        |  |  |  |               |      |  |  |
|   | 1   | 4344485    | 1982-08-17 | Butler   |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |        |  |  |  |               |      |  |  |
| Examiner Name   | Date  |            |            |          |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |        |  |  |  |               |      |  |  |
|   |   |            |            |          |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |        |  |  |  |               |      |  |  |